

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 301 (CRAIN HIGHWAY) AND FRANK TIPPETT RD IN PRINCE GEORGE'S COUNTY. THE MODIFICATION WILL ADD VIDEO DETECTION EQUIPMENT AND UPGRADE SIGNAL HEADS TO LED. US 301 IS ASSUMED TO RUN IN AN NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA 5 PHASE, FULLY-ACTUATED MODE WITH PROTECTED LEFT TURN PHASING ON THE NORTHBOUND US 301 APPROACH. US 301 APPROACHES OPERATE CONCURRENTLY. FRANK TIPPETT & DRIVEWAY OPERATE CONCURRENTLY.

AN EXISTING NEMA FULL-TRAFFIC-ACTUATED, EIGHT PHASE CONTROLLER IN A BASE MOUNTED CABINET SHALL BE UTILIZED AT THIS LOCATION. VIDEO DETECTION INTERFACE EQUIPMENT SHALL BE INSTALLED INTO THE CABINET BY SHA FORCES.

CONTACTS

DISTRICT (DISTRICT 3 - PRINCE GEORGE'S)

OFFICE OF TRAFFIC AND SAFETY

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MR. MICHAEL STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
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EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

ITEM NO.	QUANTITY	DESCRIPTION
900000	1 EA	[UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-8 CAMERAS

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
585405	355 LF	5" WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
585407	495 LF	5" YELLOW LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
800000	4 EA	IP-BASED VIDEO DETECTION CAMERA AND CABLE
800000	1 LS	REMOVAL AND DISPOSAL OF EXISTING SIGNAL MATERIAL AND EQUIPMENT
805118	110 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-BORED
805140	75 LF	4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
810605	4 EA	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
811001	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
860284	30 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION

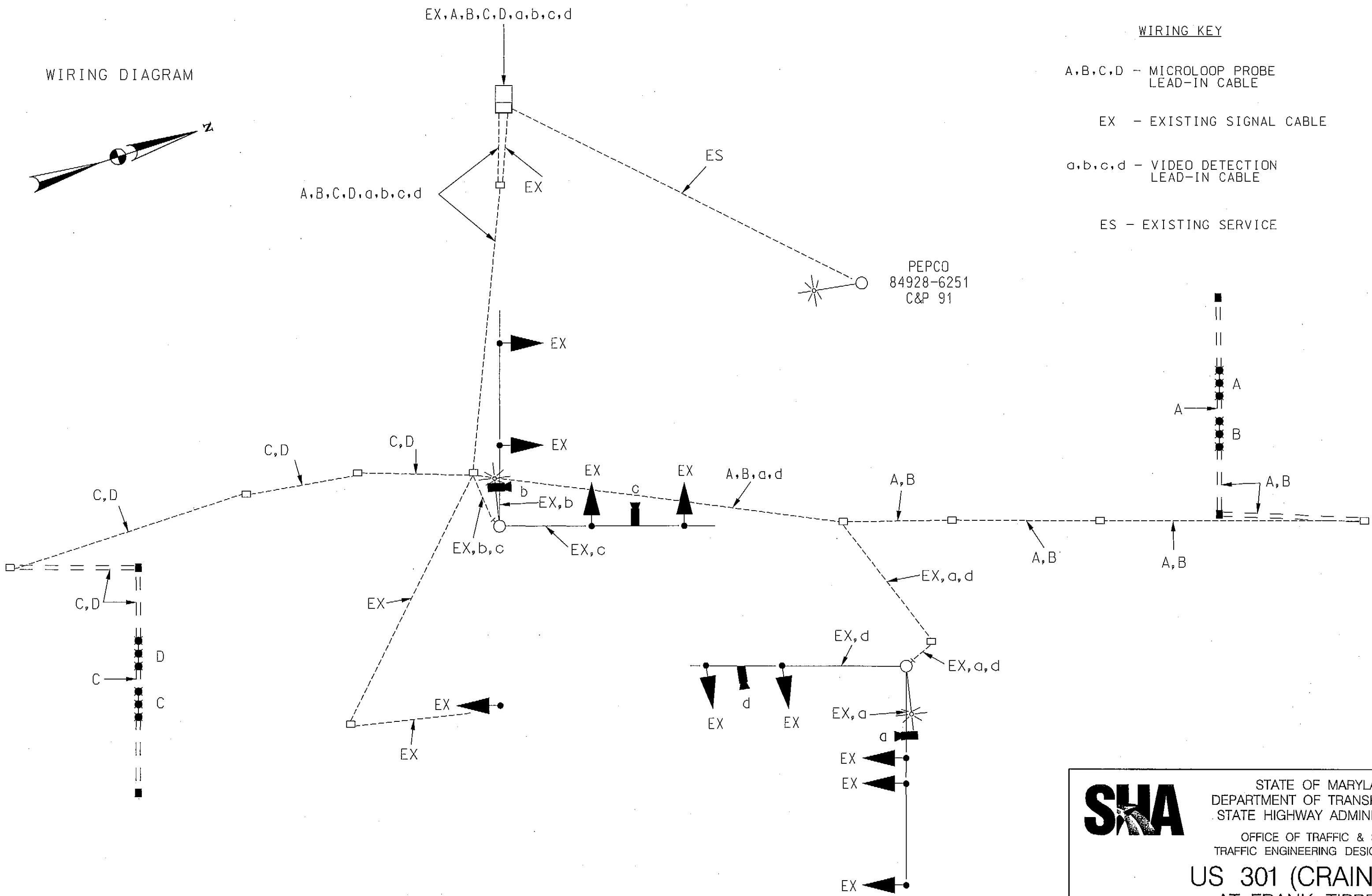
C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.

PHASE CHART

1	2	3	4	5	6	7	8	9	10

PHASE 1 & 6										
1 CHANGE										
PHASE 2 & 6										
2 & 6 CHANGE										
PHASE 4 & 8										
4 & 8 CHANGE										
FLASHING OPERATION										

WIRING DIAGRAM



WIRING KEY

A,B,C,D - MICROLOOP PROBE
LEAD-IN CABLE

EX - EXISTING SIGNAL CABLE

a,b,c,d - VIDEO DETECTION
LEAD-IN CABLE

ES - EXISTING SERVICE



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

US 301 (CRAIN HWY)
AT FRANK TIPPETT RD
UPPER MARLBORO, MD

GENERAL INFORMATION SHEET

SCALE N.T.S. DATE MAY 6, 2013 CONTRACT NO. PG7865577

DESIGNED BY ESA COUNTY PRINCE GEORGE'S

DRAWN BY ESA LOGMILE 16030106.41

CHECKED BY KMP TMS NO. L498

F.A.P. NO. TOD NO.

TS NO. 3196A-GI DRAWING **SG-02** OF 02 SHEET NO. 06 OF 06

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